

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims**

1-46 (Cancelled).

47. (Currently amended) Process for the production of a multi-layer electrode or electrode assembly, wherein:

a first layer is rolled onto a carrier;

at least one additional layer is produced by spraying on a powder in a dry manner after said first layer is rolled onto the carrier; and

said at least one additional layer is a function layer;

wherein:

the first layer is a rolled-on reaction layer;

said carrier is an electrically non-conductive carrier; and

a contact layer is sprayed onto said electrically non-conductive carrier on a side of the carrier opposite that of the rolled-on reaction layer.

48. (Cancelled).

49. (Previously presented) Process as defined in claim 47, wherein the first layer is rolled onto the carrier by means of one or more heated rollers.

50. (Previously presented) Process as defined in claim 47, wherein the carrier is designed as a carrier mesh.

51-55. (Cancelled).

56. (Previously presented) Process as defined in claim 47, wherein the sprayed-on function layer is a reaction layer.

57. (Previously presented) Process as defined in claim 56, wherein the reaction layer is produced by spraying on a catalyst carrier material on a carbon basis.

58. (Previously presented) Process as defined in claim 57, wherein platinum is used as the catalyst carrier material.

59. (Withdrawn) Process as defined in claim 47, wherein a sprayed-on function layer is a barrier layer.

60. (Withdrawn) Process as defined in claim 59, wherein a mixture of carbon and a hydrophobing material is used for forming a barrier layer.

61. (Withdrawn) Process as defined in claim 60, wherein PTFE is used as hydrophobing material.

62. (Withdrawn) Process as defined in claim 59, wherein the barrier layer has a surface density in the range of between 0.3 mg/cm<sup>2</sup> and 1 mg/cm<sup>2</sup>.

63. (Withdrawn) Process as defined in claim 47, wherein a carrier structure is produced by rolling carbon powder onto a carrier.

64. (Withdrawn) Process as defined in claim 63, wherein the carbon powder is rolled on mixed with a binding agent.

65. (Withdrawn) Process as defined in claim 64, wherein a hydrophobing material is used as binding agent.

66. (Withdrawn) Process as defined in claim 64, wherein PTFE is used as binding agent.

67. (Withdrawn) Process as defined in claim 63, wherein a pore-forming agent is added to the material to be rolled on.

68. (Withdrawn) Process as defined in claim 63, wherein the composition of the material to be rolled on and/or the particle size therein and/or a contact pressure during the roller application is adjusted.

69. (Withdrawn) Process as defined in claim 63, wherein the carrier structure is connected to a membrane.

70. (Withdrawn) Process as defined in claim 69, wherein a function layer is sprayed onto the carrier structure and/or onto the membrane prior to their connection.

71. (Withdrawn) Process as defined in claim 70, wherein prior to the connection between carrier structure and membrane a function layer is sprayed onto a connecting side of the membrane and an oppositely located side.

72. (Withdrawn) Process as defined in claim 71, wherein the respective spraying on is carried out simultaneously.

73. (Withdrawn) Process as defined in claim 70, wherein the function layer is a reaction layer.

74. (Withdrawn) Process as defined in claim 70, wherein the connection between carrier structure and membrane is brought about by roller application.

75. (Withdrawn) Process as defined in claim 69, wherein an additional carrier structure is connected to the carrier structure-membrane connection.

76. (Withdrawn) Process as defined in claim 75, wherein the additional carrier structure is rolled on.

77. (Withdrawn) Process as defined in claim 75, wherein the additional carrier structure is built up essentially in the same way as the carrier structure first connected to the membrane.

78. (Withdrawn) Process as defined in claim 75, wherein the additional carrier structure is produced essentially in the same way as the carrier structure first connected to the membrane.

79. (Withdrawn) Process as defined in claim 69, wherein an electrode-membrane unit for a fuel cell is formed.

80. (Cancelled).

81. (Currently amended) Process as defined in claim ~~80~~ 47, wherein a barrier layer is sprayed onto the rolled-on reaction layer.

82. (Cancelled).

83. (Currently amended) Process as defined in claim ~~82~~ 47, wherein:  
the contact layer comprises a barrier layer.

84. (Currently amended) Process as defined in claim ~~82~~ 47, wherein:  
the function layer comprises a barrier layer; and

the barrier layer and the contact layer are sprayed onto opposite sides of the carrier at the same time.

85. (Currently amended) Process as defined in claim ~~80~~ 47, wherein a membrane is arranged on an outer function layer.

86. (Withdrawn) Fuel cell electrode assembly produced according to the process of claim 47 wherein:

a carrier structure is produced during the rolling step by rolling carbon powder onto a carrier, said carrier being connected to a membrane.

87. (Withdrawn) A gaseous diffusion electrode produced according to the process of claim 47.

88. (Withdrawn) An oxygen-consuming electrode produced according to the process of claim 47.

89. (Withdrawn) An electrode produced by the process of claim 47 having a catalytically active reaction layer, wherein a barrier layer produced by means of a sprayed on powder is arranged on the reaction layer.

90. (Withdrawn) Electrode as defined in claim 89, wherein the barrier layer is formed by a mixture of carbon and a hydrophobing material.

91. (Withdrawn) Electrode as defined in claim 90, wherein the hydrophobing material is PTFE.

92. (Withdrawn) Electrode as defined in claim 89, wherein the barrier layer has a surface density in the range of between 0.4 mg/cm<sup>2</sup> and 0.8 mg/cm<sup>2</sup>.